

Amendments to the specification

Please amend the paragraph found on page 10, line 18 to page 11, line 7, as follows:

--FIG. 7 shows schematically, a further embodiment of the present invention in which the chamber array 400 comprises a series of "Bourdon type" fingers or elongated patches 402 directed around the heart in a palm-open upward fashion. Bourdon fingers are made from an elastic material to allow them to expand and contract. The Bourdon type fingers 402, as shown, are sutured to the elastic cup 403 which is sutured to the exterior of heart 100. The Bourdon chamber array envelops heart 100 such that it compresses the heart radially inward by straightening the fingers due to the pulsation of pressure inside the Bourdon tubes, massages the heart in accordance with the invention. The cup-shaped elastic members 403 are substantially radially rigid and hence help the fingers 402 to compress the heart 100 effectively when pulsatile input of fluid from pump 112 (via pressure regulator valve 110 and input tube or input connector 408) cause the elastic fingers 402 to be displaced inwardly thereby massaging heart 100. The pressure generated due to the fluid flow from the pump 112 helps the heart to be massaged from the apex to its base in accordance with the invention. When pressure regulator 110 changes the direction of fluid flow upon the signal received from the microprocessor 114, the backward fluid flow will contract the Bourdon tube fingers outwardly to release the pressure from the heart 100. The outflow of the fluid from the fingers 402 will return through the output connector 409 and pressure regulator valve 110) back into the pump 112 and reservoir 205 for reuse. Bourdon tubes are described in greater detail at pages 444 and 445 of Van Nostrand's Scientific Encyclopedia, 8th edition (1995), the entire description of which is incorporated by reference herein.--